

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE CIVIL ENGINEERING SUPPORT AGENCY
TYNDALL AIR FORCE BASE FL 32403-6001

REPLY TO
ATTN OF: EN

11 MAR 1193

Subject: Engineering Technical Letter (ETL) 93-1,
Construction Signs

TO: Distribution List

1. Purpose. This letter provides the instructions and format for Air Force construction project signs. The construction project sign provides the project title and basic construction team information.

2. Application. This ETL supersedes CTL 88-3, 13 Jan 88; is effective immediately for new MILCON projects; and must be sent to all installations. The intent is not to change signs on projects already under contract nor to incur extra expense on projects under design simply to comply with this ETL.

3. Specific Requirements.

3.1 This construction sign is required for all MILCON projects. Exceptions may be made for security or host nation restrictions. Host MAJCOMs have the option to require signs on non-MILCON projects.

3.2 The host MAJCOM shall provide sign colors and details to the design manager in the Requirements and Management Plan (RAMP). The design manager shall ensure the design agent includes the details and contractor duties concerning the sign in the contract before project advertisement.

3.3 The contractor shall furnish the sign, maintain the sign during construction, and remove the sign from the job site upon completion of the project.

3.4 Details of sign graphics and construction are shown on the attached drawing (Atch 2). Construct the sign using a four-foot by eight-foot by one-half-inch thick (or metric equivalent), grade A-C sheet of exterior-type plywood.

3.5 Paint the sign with one coat primer paint followed by two coats of gloss exterior-type enamel paint according to a color number specified in Federal Standards 595a. Lettering is to be as shown on attachment 2 and is to be white gloss, exterior-type enamel.

3.6 The message and graphic shall be as shown in attachment 2 with the following exceptions as they apply:

3.6.1 Projects managed by the Navy should substitute "NAVAL FACILITIES ENGINEERING COMMAND" for line 3.

3.6.2 The appropriate, similar size, Navy seal may be used at the location of the Corps of Engineers graphic.

4. The point of contact for this ETL is Mr Rick Sinkfield, AFCEE/CMR, 512-536-4188 or DSN 240-4188.

DENNIS M. FIRMAN, P. E.
Director, Systems Engineering

- 3. Atch
- 1. Distribution List
- 2. Drawing
- 3. ETL Index

DISTRIBUTION LIST

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HQ ATC/CEM Bldg 661, 73 Main Circle Randolph AFB TX 78150-4549	(3)	AFIT/DEE 2950 P Street Wright-Patterson AFB OH 45433-7765	(1)
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HQ AMC/CES 507 A Street Scott AFB IL 62225-5022	(3)	ANGRC/CEO Bldg 3500, Mail Stop 18 Andrews AFB MD 20331-6008	(2)
HQ AFSPACECOM/CEO 150 Vandenberg Street, Suite 1105 Peterson AFB CO 80914-4150	(3)	AFCEE/CM/DG 8106 Chennault Road Brooks AFB TX 78235-5318	(2)
HQ AU/DEE 400 Cannon Street Maxwell AFB AL 36112-6523	(1)	7CG/XPGF 6345 Air Force Pentagon Washington DC 20330-1600	(1)
HQ AFIC/LEE Bldg 2000, Room 643 San Antonio TX 78243-5000	(1)	HQ AFMWSRA/MWXF Randolph AFB TX 78150-6001	(1)
HQ AFCC/CEM 203 W Losey Street, Rm 1020 Scott AFB IL 62225-5219	(2)	HQ AF Safety Agency/ SEGS Norton AFB CA 92409-7001	(1)
NGB/CEP Room 2D369, The Pentagon Andrews AFB MD 20310-2500	(1)	HQ AFOMS/SGS Brooks AFB TX 78235-5000	(1)
SSC/SBEE 201 East Moore Drive (Gunter Annex) Maxwell AFB FL 36114-3005	(1)	HQ AFOTEC/DE 8500 Gibson Boulevard SE Kirtland AFB NM 87117-5558	(1)

DISTRIBUTION LIST (Con't)

ARMY

US Army Corps of Engineers Sacramento District AF Project Management 1325 "J" Street Sacramento CA 95814-2922	(1)	Chief of Engineers Department of the Army Attn: CEMP-F.A 20 Massachusetts Ave Washington DC 20314-1000	(2)
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NAVY

Navy Facilities Engrg Command Northern Division Code 04AB 10 Industrial Highway Mail Stop 82 Lester PA 19113-2090	(1)	Naval Facilities Engrg Command Chesapeake Division Code 406C Washington Navy Yard, Bldg 212 Washington DC 20374-2121	(1)
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Naval Facilities Engrg Command Atlantic Division Code 04A4 Norfolk VA 23511-6287	(1)	Naval Facilities Engrg Command Southern Division Code 04A3 PO Box 190010 North Charleston SC 29419-9010	(1)
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Naval Facilities Engrg Command Western Division Code 467.1 PO Box 727 San Bruno CA 94066-0720	(1)	Naval Facilities Engrg Command Pacific Division Code 406A Pearl Harbor HI 96860-7300	(1)
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Naval Facilities Engrg Command Southwest Division Code 0406 1200 Pacific Highway San Diego CA 92132-5190	(1)
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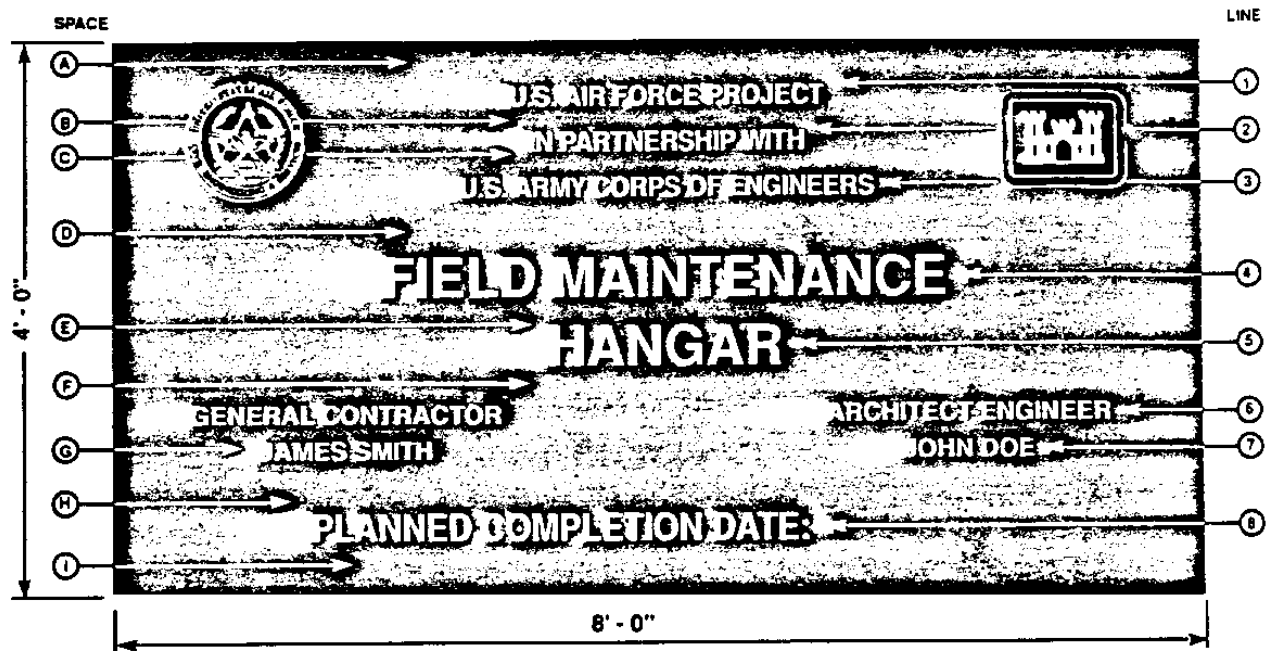
DEPARTMENT OF DEFENSE

Defense Medical Facilities Off Skyline Place #6, Suite 817 5109 Leesburg Pike Falls Church VA 22041	(1)	DTIC ATTN: DTIC-FDA Alexandria VA 22304-6145	(1)
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AAFES/ATTN: CFE PO BOX 660320 Dallas TX 75266-0320	(1)	Defense Commissary Service Director of Facilities Bldg 8400 Lackland AFB TX 78236-5000	(1)
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SPECIAL INTEREST ORGANIZATIONS

IHS (A. A. Desmoine) 1990 M Street NW, Suite 400 Washington DC 20336	(1)	Construction Criteria Database National Institute of Bldg Sciences 1201 L Street NW, Suite 400 Washington DC 20005	(1)
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SAMPLE CONSTRUCTION SIGN FOR MILCON PROJECTS

SCHEDULE

SPACE	HEIGHT	LINE	DESCRIPTION	LETTER HEIGHT	STROKE
A	3"	1	U.S. AIR FORCE PROJECT	1.5"	3/16"
B	1"	2	IN PARTNERSHIP WITH	1.5"	3/16"
C	1"	3	U.S. ARMY CORPS OF ENGINEERS	1.5"	3/16"
D	5"	4	PROJECT NAME	4"	1/2"
E	3"	5	PROJECT NAME CONT'D (IF REQUIRED)	4"	1/2"
F	5"	6	GENERAL CONTRACTOR/A-E	1.5"	3/16"
G	1"	7	GENERAL CONTRACTOR /A-E	1.5"	3/16"
H	4"	8	PLANNED COMPLETION DATE	2.5"	1/4"
I	3"				

ENGINEERING TECHNICAL LETTERS (ETL)

SECTION A - CURRENT ETLs

ETL Number	Title	Date Issued
82-2	Energy Efficient Equipment	10 Nov 82
83-1	Design of Control Systems for HVAC Change No. 1 to ETL 83-1, U.S. Air Force Standardized Heating, Ventilating & Air Conditioning (HVAC) Control Systems	16 Feb 83 22 Jul 87
83-3	Interior Wiring Systems, AFM 88-15 Para 7-3	2 Mar 83
83-4	EMCS Data Transmission Media (DTM) Considerations	3 Apr 83
83-7	Plumbing, AFM 88-8, Chapter 430	Aug 83
83-8	Use of Air-to-Air Unitary	15 Sep 83
83-9	Insulation	14 Nov 83
84-2	Computer Energy Analysis Change 1 Ref: HQ USAF/LEEEU Msg 031600Z MAY 84	27 Mar 84 1 Jun 84
84-7	MCP Energy Conservation Investment Program (ECIP)	13 Jun 84
84-10	Air Force Building Construction and the use of Termiticides	1 Aug 84
86-2	Energy Management and Control Systems (EMCS)	5 Feb 86
86-4	Paints and Protective Coatings	12 May 86
86-5	Fuels Use Criteria for Air Force Construction	22 May 86
86-8	Aqueous Film Forming Foam Waste Discharge Retention and Disposal	14 Jun 86
86-9	Lodging Facility Design Guide	4 Jun 86
86-10	Antiterrorism Planning and Design Guidance	13 Jun 86
86-14	Solar Applications	15 Oct 86
86-16	Direct Digital Control Heating Ventilation and Air Conditioning Systems	9 Dec 86
87-1	Lead Ban Requirements of Drinking Water	15 Jan 87
87-2	Volatile Organic Compounds	4 Mar 87
87-4	Energy Budget Figures (EBFs) for Facilities in the Military Construction Program	13 Mar 87
87-5	Utility Meters in New and Renovated Facilities	13 Jul 87
87-9	Prewiring	21 Oct 97
88-2	Photovoltaic Applications	21 Jan 88
88-3	Design Standards for Critical Facilities	15 Jun 88
88-4	Reliability & Maintainability (R&M) Design Checklist	24 Jun 88
88-6	Heat Distribution Systems Outside of Buildings	1 Aug 88

ENGINEERING TECHNICAL LETTERS (ETL)

SECTION A - CURRENT ETLS

ETL Number	Title	Date Issued
88-9	Radon Reduction in New Facility Construction	7 Oct 88
88-10	Prewired Workstations Guide Specification	29 Dec 88
89-2	Standard Guidelines for submission of Facility Operating and Maintenance Manuals	23 May 89
89-3	Facility Fire Protection Criteria for Electronic Equipment Installations	9 Jun 89
89-4	Systems Furniture Guide Specification	6 Jul 89
89-6	Power Conditioning and Continuation Interfacing Equipment (PCCIE) in the Military Construction Program (MCP)	7 Sep 89
89-7	Design of Air Force Courtrooms	29 Sep 89
90-1	Built-Up Roof (BUR) Repair/Replacement Guide Specification	23 Jan 90
90-2	General Policy for Prewired Workstations and Systems Furniture	26 Jan 90
90-3	TEMPEST Protection for Facilities Change 1 Ref: HQ USAF/LEEDE Ltr dated 20 April 90, Same Subject	20 Apr 90
90-4	1990 Energy Prices and Discount Factors for Life-Cycle Cost Analysis	24 May 90
90-5	Fuel and Lube Oil Bulk Storage Capacity for Emergency Generators	26 Jul 90
90-6	Electrical System Grounding, Static Grounding and Lightning Protection	3 Oct 90
90-7	Air Force Interior Design Policy	12 Oct 90
90-8	Guide Specifications for Ethylene Propylene Diene Monomer (EPDM) Roofing	17 Oct 90
90-9	Fire Protection Engineering Criteria for Aircraft Maintenance, Servicing, and Storage Facilities	2 Nov 90
90-10	Commissioning of Heating, Ventilating, and Air Conditioning (HVAC) Systems Guide Specification	17 Oct 90
91-1	Fire Protection Engineering Criteria Testing Halon Fire Suppression Systems	2 Jan 91
91-2	High Altitude Electromagnetic Pulse (HEMP) Hardening in Facilities	4 Mar 91
91-3	Water Supply for Fire Protection	14 Jun 91
91-4	Site Selection Criteria for Fire Protection Training Areas	14 Jun 91
91-5	Fire Protection Engineering Criteria - Emergency Lighting and Marking of Exits	18 Jun 91
91-6	Cathodic Protection	3 Jul 91

ENGINEERING TECHNICAL LETTERS (ETL)

SECTION A - CURRENT ETLs

ETL Number	Title	Date Issued
91-7	Chlorofluorocarbon (CFC) Limitation in Heating, Ventilating and Air-conditioning (HVAC) Systems	21 Aug 91
93-1	Construction Signs	11 Mar 93

SECTION B - OBSOLETE ETLs

No.	Date	Status
82-1	10 Nov 82	Superseded by ETL 83-10, 86-1, 87-4
82-3	10 Nov 82	Superseded by ETL 83-5, 84-2
82-4	10 Nov 82	Superseded by ETL 84-7
82-5	10 Nov 82	Superseded by ETL 84-1, 86-13, 86-14
82-6	30 Dec 82	Cancelled
82-7	30 Nov 82	Cancelled
83-2	16 Feb 83	Superseded by ETL 84-3
83-5	5 May 83	Superseded by ETL 84-2
83-6	24 May 83	Cancelled
83-10	28 May 83	Superseded by ETL 86-1
84-1	18 Jan 84	Superseded by ETL 86-14
84-3	21 Mar 84	Cancelled
84-4	10 Apr 84	Superseded by ETL 86-7, 86-15, 87-5
84-5	7 May 84	Superseded by ETL 84-8, 86-11, 86-18, 88-6
84-6	Not Issued	Cancelled/Not Used
84-8	19 Jun 84	Superseded by ETL 86-11
84-9	5 Jul 84	Superseded by ETL 88-7
88-5	2 Aug 88	Superseded by ETL 91-6
86-1	3 Feb 86	Superseded by ETL 87-7
86-3	21 Feb 86	Superseded by ETL 86-4
86-6	3 Jun 86	Superseded by ETL 86-11, 86-18, 88-6
86-7	3 Jun 86	Superseded by ETL 86-15
86-11	3 Jul 86	Superseded by ETL 88-6
86-12	3 Jul 86	Superseded by ETL 90-2
86-13	18 Aug 86	Superseded by ETL 86-14
86-15	13 Nov 86	Superseded by ETL 87-5
86-17	17 Dec 86	Superseded by ETL 89-6
86-18	18 Dec 86	Superseded by ETL 88-6
87-3	12 Mar 87	Superseded by ETL 87-6, ETL 88-5
87-6	21 Aug 87	Superseded by ETL-88-5
87-7	14 Oct 87	Superseded by ETL 89-1
87-8	19 Oct 87	Superseded by ETL 90-1
88-1	5 Jan 88	Superseded by ETL 89-2
88-7	24 Aug 88	Superseded by ETL 90-3, ETL 91-2
88-8	4 Oct 88	Superseded by ETL 91-7
89-1	6 Feb 89	Superseded by ETL 90-4
89-5		Issued as ETL 90-7
91-8	24 Sep 91	Cancelled